

Perspectives



Where the world comes for answers

From the Office of Faculty Development



HARVARD MEDICAL SCHOOL
TEACHING HOSPITAL

Director: S. Jean Emans, MD Administrative Director: Maxine Milstein, MBA Editor: Jill Dobriner, PhD

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My Boston Children's Story, by Carla F. Kim, PhD, Professor of Genetics and Pediatrics - *Seeking a Niche*

I started my lab nearly 15 years ago, excited to be a junior faculty member of the brand new Stem Cell Program. Here I felt that I could pursue any direction that my research led. I formed my lab with the goal to identify and characterize stem cells in the normal lung and in lung cancers. We have developed and refined tools to understand how lung stem cells interact with their surrounding cells and how interactions go awry in lung diseases. Now we are using organoids to model lung injury and repair, lung cancer, pulmonary fibrosis, COPD, cystic fibrosis, and premature infant lung disease. Interpersonal interactions with many different people were a critical key to my success:

- My Chair, Len Zon, MD, who provided advice upon every situation, and took the time to read drafts and hone my R01 application after numerous “not discussed” applications
- My colleagues at BCH and HMS Genetics, who provided advice and creative support
- My collaborators and friends, who worked with me on the science and also shared their own experiences running a lab, without the concern of speaking to someone who would be evaluating my performance for promotion (treasured memories of our trips to Bertucci's for these discussions!)
- My students, postdocs, RAs, undergraduates, administrators, all of whom dedicated their efforts, even when I could not be present and who taught me how to mentor

Just as a niche and cell-cell interactions is needed to support stem cells, a faculty member (or a scientist at any level) needs input from and interactions with others of differing experiences. I am fortunate that here my environment has been rich with individuals who helped me, and I encourage others to develop a beneficial microenvironment of their own. I am grateful that Boston Children's Hospital is my niche—my research home.



Carla F. Kim, PhD

Director's Perspectives, by S. Jean Emans, MD

Enjoy our warm New England summer and your well-deserved vacation days, whether you are travelling or at-home. I don't need to tell you how trying the past year has been; as clinicians and researchers you have been fully immersed in the COVID-19 emergency. We now have a better future due to your efforts! This issue of our newsletter commends our faculty's readiness to take on hard topics or difficult research issues. Carla Kim, PhD, reviews the challenges and milestones that stand out in her Boston Children's career. Please also join me in congratulating Frederick Alt, PhD; Marsha Moses, PhD; Catherine Gordon, MD, MSc; and Christopher Walsh, MD, PhD, for their impressive national awards. Also read about 7 new Chairs and 2 transitions in the designation of Chairs in the Department of Orthopedics. The summer is a good time to reflect and renew our spirits.

Frederick Alt, PhD, Awarded American Association for Cancer Research Award

Congratulations to Frederick Alt, PhD, HMS Charles A. Janeway Professor of Pediatrics and the BCH Director of the Program in Cellular and Molecular Medicine, who has been awarded the American Association for Cancer Research (AACR) Award for Lifetime Achievement in Cancer Research. This award highlights Dr. Alt's ground-breaking research in genetics and immunology.



Frederick Alt, PhD

Marsha Moses, PhD, Receives American Association for Cancer Research Lectureship

Congratulations to Marsha Moses, PhD, HMS Julia Dyckman Andrus Professor of Surgery and Director, BCH Vascular Biology Program, who has received the American Association for Cancer Research Charlotte Friend Lectureship. The award is given to researchers who have made meritorious discoveries and also served as leaders. Dr. Moses was commended for both her pioneering work in tumor growth and her inspirational presence for other women scientists.



Marsha Moses, PhD

Grace Huang, MD, Appointed HMS Dean for Faculty Affairs

Grace Huang, MD, HMS Associate Professor of Medicine and a faculty member at Beth Israel Deaconess Medical Center (BIDMC), will become the HMS Dean for Faculty Affairs on July 1, 2021. Dr. Huang has a long-standing interest in both faculty development and medical education; at BIDMC, she was Director of the Office of Academic Careers and Faculty Development, as well as Co-Director of the Beth Israel Deaconess Academy. In a 4/29 memo to the HMS community, Deans George Q. Daley and Anne E. Becker focused on Dr. Huang's leadership experience; "she is widely recognized for her leadership in faculty development, with a particular focus on publishing in medical education and scholarly writing, and is thoughtful about how best to recruit, develop, support, and promote our diverse faculty. She is a leader who fully embraces the importance of advancing the HMS mission."



Grace Huang, MD

Update from the Office of Health Equity and Inclusion

The Bystander-to-Upstander Workshop is currently being rolled out hospital-wide. This inclusive workplace training was created collaboratively by the Office of Health Equity and Inclusion, Department of Education, and colleagues from the Department of Radiology, Division of Gastroenterology and SimPeds. Please contact the Office of Health Equity and Inclusion at healthequity@childrens.harvard.edu to schedule a workshop for your department, division or program.

Recent Events:

On May 4, 2021, the Asian American & Pacific Islander Heritage month celebration took place with the keynote speaker: Aditya "AK" Kaza, MD, Director of the Neonatal Cardiac Surgery Program.

On May 19, 2021, the Office of Health Equity and Inclusion co-sponsored Grand Rounds with the Division of Gastroenterology and the speaker was Laura Morgan Roberts, PhD, Professor of Practice, University of Virginia Darden School of Business, who spoke about "*Race, Work and Leadership: Three Zones of Action for Advancing Diversity, Equity, Inclusion and Justice.*"

Harvard Medical School Faculty Fellowship Awardees (2021-2023):

We are excited to announce the recipient of the Harvard Medical School Diversity Inclusion and Community Partnership (DICP) Faculty Fellowship, **Marcella F. Luercio, MD**, BCH Division of General Pediatrics, Boston Children's and HMS Instructor in Pediatrics, and of the Harvard Catalyst Program for Diversity Inclusion (PFDI) Faculty Fellowship, **Dennis J. Spencer, MD, PhD**, BCH Division of GI-Nutrition Hospital and HMS Instructor in Pediatrics.



Marcella F. Luercio,
MD



Dennis Spencer, MD, PhD

Congratulations to the 2021 OFD/BTREC/CTREC Fellowship Recipients

This year, the BCH Institutional Centers for Clinical and Translational Research (ICCTR) and Harvard Catalyst provided supplements for clinical research to 4 outstanding recipients; this supplemental award, \$50K, will be distributed over two years.

Elena Crestani, MD; Instructor in Pediatrics, Immunology; Novel predictive biomarkers of food allergy in children (ICCTR/Harvard Catalyst Supplement)
Neil Dani, PhD; Instructor in Pathology; Mechanisms of Choroid Plexus Secretion in the Developing Brain
Jessica Garbern, MD, PhD; Instructor in Pediatrics, Cardiology; Quiescence and maturation of pluripotent stem cell-derived cardiomyocytes
Maria Gutierrez-Arcelus, PhD; Instructor in Pediatrics, Immunology; B cell activation via the B-cell receptor and Toll-like receptor pathways to reveal genetic heterogeneity in Systemic Lupus Erythematosus
Rebecca Harris, MD, PhD; Instructor in Pediatrics, Endocrinology; Sex-Biased Gene Expression in Humans: Defining the Roles of Sex Hormones and Sex Chromosomes (ICCTR/Harvard Catalyst Supplement)
Camilo Jaimes-Cobos, MD; Assistant Professor of Radiology; White Matter Microstructure in Fetuses with Congenital Heart Disease
Venkat Magupalli, PhD; Instructor in Pediatrics, Program in Cellular and Molecular Medicine; Mechanisms Underlying Sustained Cytokine Release in the Hyperactive Macrophage State
Amar Majmundar, MD, PhD; Instructor in Pediatrics, Nephrology; Molecular pathogenesis, disease modeling and treatment of NOS1AP variant-associated nephrotic syndrome.
Kate Millington, MD; Instructor in Pediatrics, Endocrinology; Defining the role of sex steroids in cardiovascular disease risk (ICCTR/Harvard Catalyst Supplement)
Karen Ocwieja, MD, PhD; Instructor in Pediatrics, Infectious Diseases; Single cell sequencing in human tissue culture models of congenital Zika syndrome
John Prensner, MD, PhD; Instructor in Pediatrics, Hematology-Oncology; Non-canonical proteins as driver genes in MYC-driven medulloblastoma
Ronen Schneider, MD; Instructor in Pediatrics, Nephrology; Mechanistic characterization of newly discovered DAAM2-related nephrotic syndrome
Eleonora Tamilia, PhD; Instructor in Pediatrics, Newborn Medicine; New Method to Deconstruct the Epileptogenic Brain Network and Assist Epilepsy Surgery Planning (ICCTR/Harvard Catalyst Supplement)

Catherine Gordon, MD, MSc, Honored with the Society for Adolescent Health and Medicine's 2021 Outstanding Achievement in Adolescent Health and Medicine Award

Catherine Gordon, MD, MSc, has received the Society for Adolescent Health and Medicine's (SAHM) Outstanding Achievement in Adolescent Health and Medicine Award, which is considered SAHM's most prestigious recognition. In his award letter, SAHM President, David L. Bell, MD, MPH, highlighted Dr. Gordon's commitment to the well-being of adolescents: "it is a well-deserved acknowledgement of your years of dedication to adolescents and adolescent health care."



Catherine Gordon, MD, MSc

Christopher Walsh, MD, PhD, Awarded 2021 Gruber Neuroscience Prize

Christopher Walsh, MD, PhD, BCH Chief of the Division of Genetics and HMS Bullard Professor of Pediatrics and Neurology, has been awarded the prestigious Gruber Neuroscience Prize from Yale University for his groundbreaking research on inherited brain disorders. The award includes \$500,000 in funding.



Christopher Walsh, MD, PhD

Update from the Medical Library, by Chloe Rotman, MLIS, Manager of Library Services

In April, Harvard announced that their license for Covidence, a collaborative software for systematic reviews, would no longer extend to the Boston Children's Hospital domain. In recognition of Covidence's value to the BCH community, the Medical Library has purchased an unlimited institutional license. Any employee using the childrens.harvard.edu email address will be able to create and collaborate on an unlimited number of Covidence projects with colleagues from BCH and from other institutions. If you've been creating and working on systematic reviews under the Harvard University license, all of your work will seamlessly roll over to the new BCH license. Once you register under the BCH domain, all of your projects will still be accessible without any changes to your workflow. Visit the Boston Children's Covidence Support Page for information on how to register (or reregister) and a basic overview of how and why to use Covidence for your systematic reviews. Reach out to library@childrens.harvard.edu to schedule general training or more personalized consultations on your systematic review protocols, or visit our Systematic Review LibGuide.

Department of Orthopedic Surgery Announces 2021 Distinguished Chairs

The Department of Orthopedic Surgery and the Division of Sports Medicine at the end of March 2021 celebrated 7 inaugural endowed Chairs and two Chair transitions, which will provide funding for the next generation of thought and innovative leaders for musculoskeletal disorders in children. Four of the new chairs will eventually honor Drs. John Emans, James Kasser, Michael Millis, and Lyle Micheli for their career long contributions to our patients, their families, and the Boston Children's Hospital community.

Donald Bae, MD, is the Leadership and Education Endowed Chair

Daniel Hedequist, MD, is the Spine Endowed Chair. Upon Dr. Emans' retirement, this will become the John B. Emans Spine Endowed Chair

Young-Jo Kim, MD, PhD, is the Translational Research Endowed Chair in Orthopedic Surgery

Mininder Kocher, MD, MPH, is the Joseph O'Donnell Family Endowed Chair; Dr. Lyle Micheli will now become the Distinguished Joseph O'Donnell Family Endowed Chair

William Meehan, MD, is the Sports Injury Prevention Endowed Chair in the Sports Medicine Division. Upon Dr. Micheli's retirement, this will become the Lyle J. Micheli Sports Injury Prevention Endowed Chair

Michael Millis, MD, is the Oberg Family Endowed Chair in the Adolescent and Young Adult Hip Program. Upon his retirement, this will become the Michael B. Millis Hip Endowed Chair

Martha Murray, MD, is the Translational Research Endowed Chair in Sports Medicine

Benjamin Shore, MD, MPH, is the Cerebral Palsy Endowed Chair. Upon Dr. Kasser's retirement, this will become the James R. Kasser Endowed Chair

Brian Snyder, MD, PhD, is the Maurice Edmond Mueller Professorship



**Donald Bae,
MD**



**Daniel
Hedequist,
MD**



**Young-Jo
Kim, MD,
PhD**



**Mininder
Kocher,
MD, MPH**



**William
Meehan,
MD**



**Michael
Millis, MD**



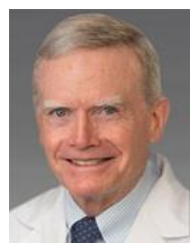
**Martha
Murray,
MD**



**Benjamin
Shore,
MD, MPH**



**Brian
Snyder,
MD**



**John Emans,
MD**



**Lyle
Micheli,
MD**



**James
Kasser,
MD**

Wellness Tips by Faculty for Faculty: *Getting the Most from Your Workouts*
 – see endpage for the *Science of Regular Workouts!*

Melissa Christino, MD, Assistant Professor of Orthopedic Surgery -
Planning Your Summer Fitness

- Finding time to workout during busy days can be a challenge, but ultimately we will make time for what's most important. Schedule time into your day for your workouts and make an appointment with yourself for your well-being.
- Workouts do not have to be long to be effective. Even if you only have 10 minutes, doing a quick circuit of core or High Intensity Interval Training (HIIT) exercises, climbing the stairs up to the roof top garden at the hospital, or going for a brisk walk can all be quick ways to sneak in a workout. Online apps have great options for quick workouts including Grokker (all BCH and Foundation employees have access to this!), Peloton, Beachbody apps and more!



Melissa Christino, MD

Our annual Research, Program, and Medical Education Award Ceremony is scheduled for Tuesday, October 26, 12 -1 PM. More details to follow by early September.



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Jennifer Morse, MS, CSCS

Wellness Tips, by Faculty for Faculty – continued

William P. Meehan III, MD, Associate Professor of Orthopedic Surgery; Director, Micheli Center for Sports Injury Prevention; Director, Clinical Effectiveness Research Center, Department of Orthopedics and Jennifer Morse, MS, Administrative Director at The Micheli Center for Sports Injury Prevention; Certified Strength and Conditioning Specialist - *The Science of Regular Workouts*

Why should I prioritize exercise?

Exercise is a keystone habit, such that exercising ≥ 3 times per week leads to eating better, consuming less alcohol, smoking less, sleeping better, and being more productive at work. Regular exercise reduces stress, improves one's mood, and is associated with a lower risk of heart disease, overweight/obesity, depression, and anxiety while helping to maintain cognition and decrease all-cause mortality.

- Choose an activity that you enjoy. Thus you will be more likely to do it consistently. Many busy people find exercising during their commute by walking or cycling to work an effective way to start an exercise regimen.
- Although exercising ≥ 3 days per week is enough to reduce disease and improve fitness, exercising most, if not all, days of the week can help maximize benefits. A regimen of at least 30 minutes 5 days per week would meet American College of Sports Medicine (ACSM) guidelines.

For those who would like help initiating exercise, come visit the Micheli Center for Sports Injury Prevention at Boston Children's Hospital Waltham and sign up for a session with one of our strength and conditioning specialists. Or sign up for a virtual session you can do from home: <https://www.themichelicenter.com/virtual-training-sessions>.